

**3.11 MISSISSIPPI RIVER BASIN
HATCHIE RIVER – TUSCUMBIA RIVER
CYPRESS CREEK – MUDDY CREEK**



DESCRIPTION and EXTENT OF PROBLEM

According to the 1998 303(d) List, more than 318 miles of the Hatchie River – Cypress Creek subwatershed are partially supporting due to the siltation caused by agricultural practices. Agriculture will be the major cause of water pollution addressed in the initial UWA-targeted subwatersheds, Cypress Creek – Muddy Creek.

1998 303(d) LIST

WATERSHED NAME

Cypress Creek-Muddy Creek

SOURCES

siltation/agriculture

SUBWATERSHED ROTATIONAL PLAN

The Cypress Creek watershed will receive 319 funding through the FY-00 UWA grant. The watershed was selected because of their agricultural predominance. As the FY-00 grant progresses the project manager, Chickasaw-Shiloh RC&D, will be able to determine, with assistance from TDEC, which would be the next subwatershed needing UWA funding. Several other subwatersheds of the Cypress Creek watershed are in need of remediative efforts. As is common in most of the UWA watersheds agricultural BMP activity is more advanced than other nonpoint source issues.

It is important to note that while these UWA efforts are on going the base grants will also be funding demonstration BMPs and public awareness efforts throughout the watershed. These efforts will address failing septic systems.

COOPERATING PARTNERS

Partners

Chickasaw-Shiloh RC&D Council
Local landowners
McNairy County Soil Conservation District
McNairy County government
Tennessee Department of Agriculture
 Ag Resources Conservation Program
Tennessee Department of Environment & Conservation
 Division of Ground Water Protection
 Division of Water Pollution Control
 Division of Water Supply
 Ground Water Management Section
Tennessee Department of Health
 Division of Lab Services
U.S. Department of Agriculture
 Natural Resource Conservation Service
U.T. Institute of Agriculture

Abbreviations

RC&D

SCD

TDA-ARC

TDEC-GWP
TDEC-WPC
TDEC-DWS
TDEC-GWMS

TDH-DLS

USDA-NRCS
UTIA

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U.T. County Technical Assistance Service

UT-CTAS

Chickasaw-Shiloh RC&D Council

The local RC&D Council will oversee the project management as well as BMP implementation, and public awareness. The RC&Ds ability in these areas will be crucial to the generation of projects now and in the future.

Local landowners

Landowners will be requested to participate in the implementation of BMPs by allowing the BMP to be placed on their property, contributing to the construction of the BMP through in-kind services, and maintaining the BMP for a pre-determined or indefinite period of time, as designated in the NRCS Field Technical Guide. These same landowners will also be required to allow others to visit the BMP once it has been fully constructed.

McNairy County Soil Conservation District

The SCD is an partner in the effort to reduce nonpoint source pollution to the local waters. The SCD, can provide a significant amount of financial assistance to local water quality efforts. Through its direct interaction with the local NRCS district conservationist, the SCD can also direct technical as well as administrative assistance to local water quality projects. The SCD also serves as a leader in the effort to increase water quality education of the local citizens and operators.

McNairy County government

As McNairy County residential and commercial growth takes farmland of the Hatchie River-Cypress Creek watershed, its officials and residents will need to remain aware of and protect the existing Ag-related remediation work already in place. More importantly, government officials need to assume a leadership role in the nps effort by establishing water quality control measures for all construction sites and stormwater problem areas as growth continues.

CURRENT 319 PROJECTS

FY-95	Scenic Hatchie River-Bear Creek Restoration Demonstration	RC&D
FY-2000	Hatchie River Water Quality Restoration: Cypress Creek	RC&D

CURRENT MONITORING & ASSESSMENT

TDEC-WPC five-year watershed management approach
TDH-DLS pre- and post- BMP monitoring

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MEASURES OF SUCCESS

- UWA projects have been implemented in all subwatersheds on the 1998 303(d) List in increasing numbers each year.
- Post BMP implementation monitoring results are indicating an overall improvement of the water quality of streams.
- The subwatersheds have been removed from the 1998 303(d) List due to sufficient water quality improvements.

MILESTONES

Long Term Goal 1.

Hold regularly scheduled meetings with stakeholders, to create new partnerships, strengthen existing partnerships and to foster greater trust, commitment and accountability.

- **Action:** Conduct an annual priority watershed partners meeting for project coordination.
Lead: TDA-NPS Program
Key Partners: TDEC-WPC; USDA-NRCS; TDH-DLS; RC&D; local governments
Year(s): 2001-2005
- **Action:** Develop a Watershed Restoration Action Strategy.
Lead: TDA-NPS Program
Key Partners: TDEC-WPC; USDA-NRCS; TDEC-DWS-GWMS
Year(s): 2001

Long Term Goal 3.

Restore all waters impaired by nonpoint sources that are listed on the 1998 303(d) List to the condition of fully supporting their designated uses by 2015, in cooperation with local, state and federal partners.

- **Action:** One hundred percent of agricultural and stream bank BMPs will be completed in the Muddy Creek subwatershed.
Lead: RC&D; USDA-NRCS and SCD
Key Partner: TDA-NPS Program
Year(s): 2005
- **Action:** Sixty percent of the of agricultural and stream bank BMPs will be completed in the Cypress Creek watershed.
Lead: RC&D; USDA-NRCS and SCD
Key Partner: TDA-NPS Program
Year(s): 2010

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- **Action:** Water quality of Muddy Creek subwatershed will indicate improvement due to the BMP implementation efforts.
Lead: TDEC-WPC and TDH-DLS
Key Partners: TDA-NPS Program
Year(s): 2005

Long Term Goal 5.

Improve the knowledge of stakeholders and citizens concerning the origins, magnitude, and prevention of nonpoint source pollution.

- **Action:** Develop at least two educational projects to educate the local citizens, landowners, and elected officials in the Cypress Creek- Muddy Creek subwatershed
Lead: TDA-NPS Program
Key Partner: RC&D, SCD, USDA-NRCS
Year(s): 2005

Long Term Goal 7.

Use the maximum allowable percentage of funding annually to assist partners with water quality monitoring and assessment, for the duration of the 319 program.

- **Action:** Pre-BMP implementation monitoring will have been completed and post-BMP implementation monitoring will be in progress in the Muddy Creek subwatershed
Lead: TDEC-WPC and TDH-DLS
Key Partners: TDA-NPS Program, USDA-NRCS, RC&D
Year(s): 2005

Action: Post-BMP implementation monitoring will have been completed in the Cypress Creek subwatershed.
Lead: TDEC-WPC and TDH-DLS
Key Partners: TDA-NPS Program, USDA-NRCS, RC&D
Year(s): 2010